

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO.																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
SHEET INDEX SUPPORTING INFORMATION	A1	1																								
APPARATUS INDEX LEAD INDEX OPTION INDEX	A2	1																								
FS 1 SYSTEM INTERCONNECTIONS	D1	1																								
	B2	1																								
	B3	1																								
	B4	1																								
	B5	1																								
APP FIG. 1	C1	1																								
CIRCUIT NOTES EQUIPMENT NOTES	D1	1																								
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	G2	1																								
	G3	1																								
	G4	1																								
	G5	1																								
	G6	1																								
	G7	1																								
	G8	1																								
	G9	1																								
	G10	1																								
CAD 2 JACK WIRING	G11	1																								

CONTENTS	SHEET NO.	ISSUE NO.																								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
CPS UD1 POWER SUPPLY	J1	1																								
	J2	1																								
	J3	1																								
CPS UD2 ENCODER DRIVER	J4	1																								
	J5	1																								
	J6	1																								
	J7	1																								
CPS UD3 TIMING AND CONTROL	J8	1																								
	J9	1																								
	J10	1																								
	J11A	1																								
	J11B	1																								
CPS LDA 3-24 SECOND VML MESSAGE MODULE	J12	1																								
	J13	1																								
	J14	1																								
	J15	1																								
CPS LPS FPL MESSAGE MODULE	J16	1																								
	J17	1																								
	J18	1																								
	J19	1																								
CPS LDB 3-12 SECOND VML MESSAGE MODULE	J20	1																								
	J21	1																								
	J22	1																								
	J23	1																								
	J24	1																								

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J15121A-1
EQUIPMENT DESIGN REQ.	J15121A-1
	BSP 201-519-101
13A ANNOUNCEMENT SYSTEM - DESCRIPTION	BSP 201-519-301
13A ANNOUNCEMENT SYSTEM OPERATING PROCEDURES	BSP 201-519-301
13A ANNOUNCEMENT SYSTEM NETWORK DESIGN ENVS INFO.	BSP 201-519-301

SHEET INDEX NOTES

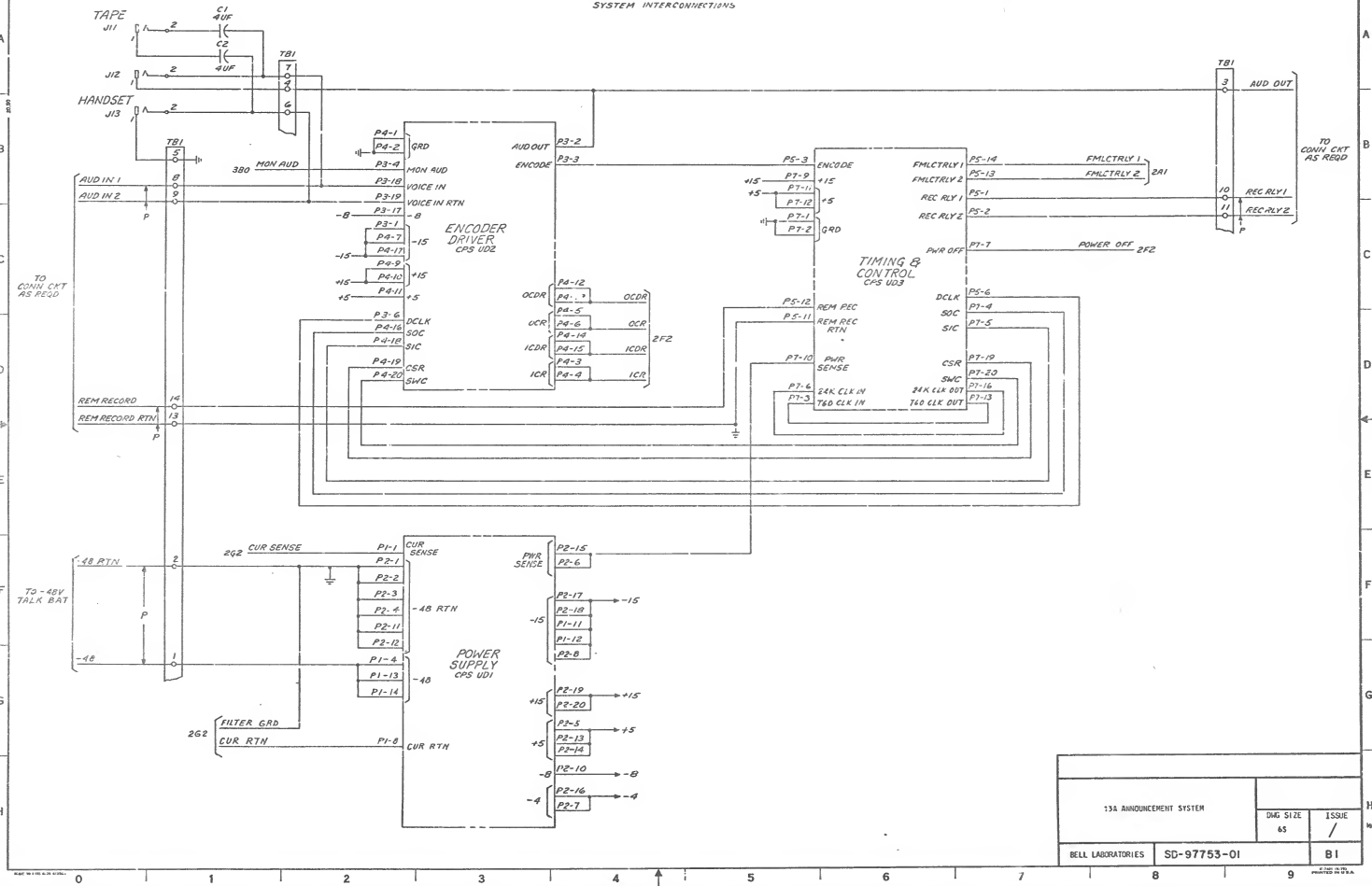
- WHEN CHANGES ARE MADE IN THIS DRAWING, THE SHEETS AFFECTED WILL BE REISSUED.
- THIS SHEET INDEX WILL BE REISSUED AND REISSUED UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
- THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
- SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
- THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

COMMON SYSTEMS 13A ANNOUNCEMENT SYSTEM CIRCUIT FOR RECORDING AND REPRODUCING DIAL FACILITIES MANAGEMENT ANNOUNCEMENTS		IND1	ATTACHED STANDARD
BWG SIZE 65	ISSUE /		
BELL LABORATORIES	SD-97753-01	-A1 85 SHEET	

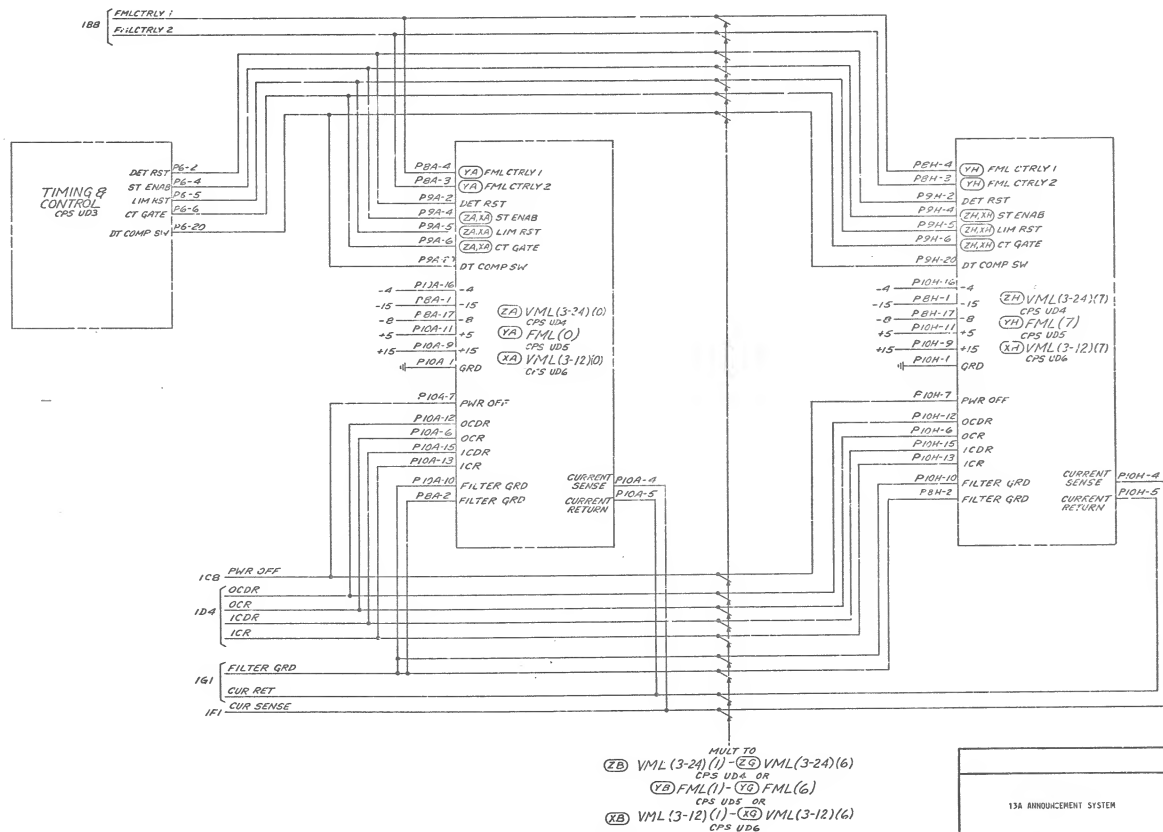
	0	1	2	3	4	5	6	7	8	9	
	APPARATUS INDEX										
	EQUIP LOC		APP FIG.		DESIG		L227-2N		L227-2N		
			NO. SH NO.				FS		FS		
	CIRCUIT PACKS										
	ENCODER DRIVER		1		C1						
	PHONES THRU (7)		1		C1						
	POWER SUPPLY		1		C1						
	TUNING & CONTROL		1		C1						
	VPL(3-12)(0)		1		C1						
	THRU (7)										
	VPL(3-20)(0)		1		C1						
	THRU (7)										
	CAPACITORS										
	C1		121		1						
	C2		121		1						
	JACKS										
	HANDSET		130		1						
	HANDSET		130		1						
	TAPE		140		1						
	ANNOUNCEMENT										
	START (0)		400		100						
	START (1)		400		100						
	START (2)		400		100						
	START (3)		400		100						
	START (4)		400		100						
	START (5)		400		100						
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	START (59)		400		100						
	START (60)		400		100						
	START (61)		400		100						
	START (62)										

PART OF FS1 SYSTEM INTERCONNECTIONS



13A ANNOUNCEMENT SYSTEM		
Dwg. Size AS		Issue /
BELL LABORATORIES	SD-97753-01	B1

PART OF FS I SYSTEM INTERCONNECTIONS

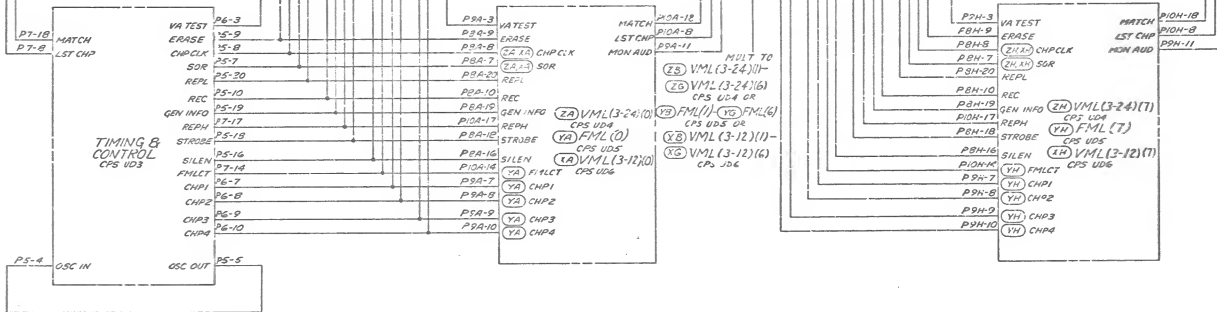


PART OF FS I SYSTEM INTERCONNECTIONS

1B1 MON AUD

TO
CONV CKT
AS REQD

TB1
1/2
0



134 ANNOUNCEMENT SYSTEM

DWG SIZE
85

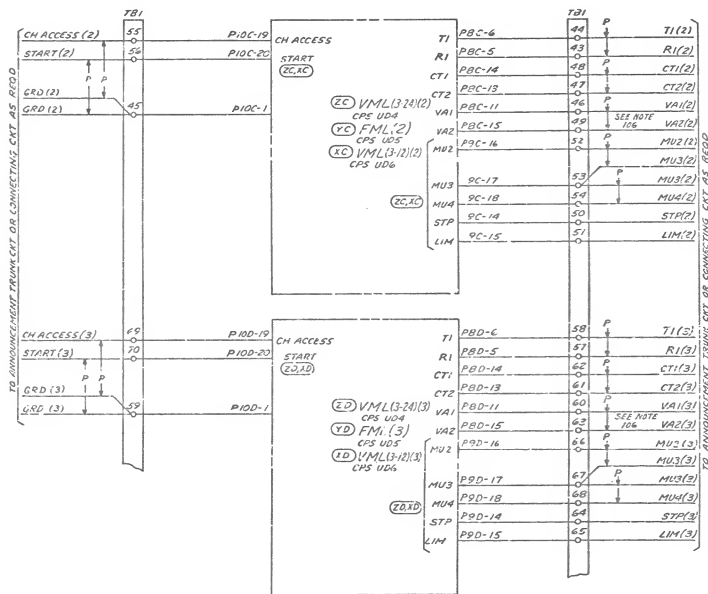
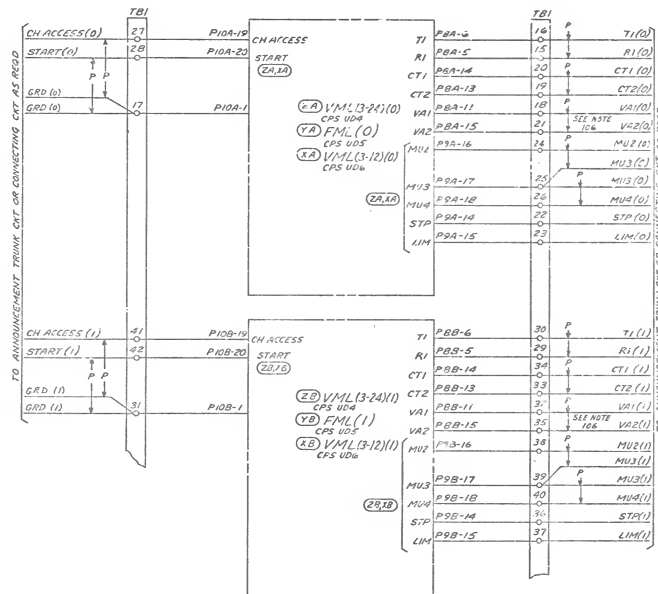
ISSUE
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BELL LABORATORIES

SD-97753-01

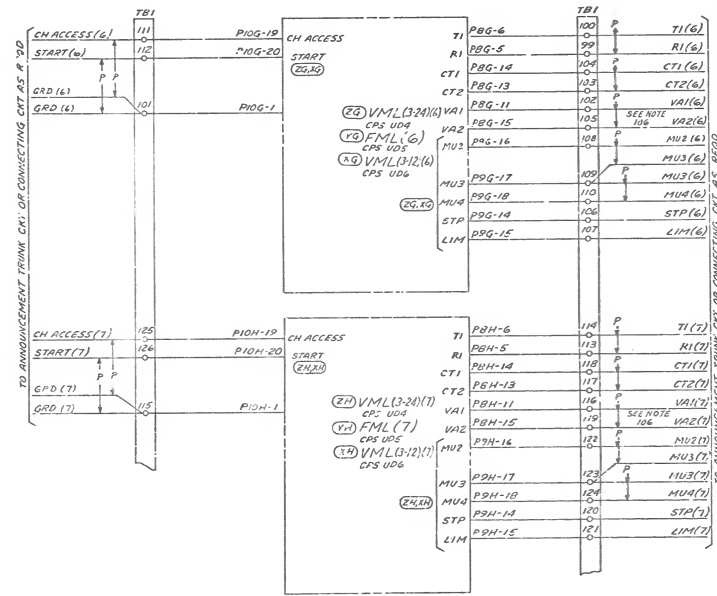
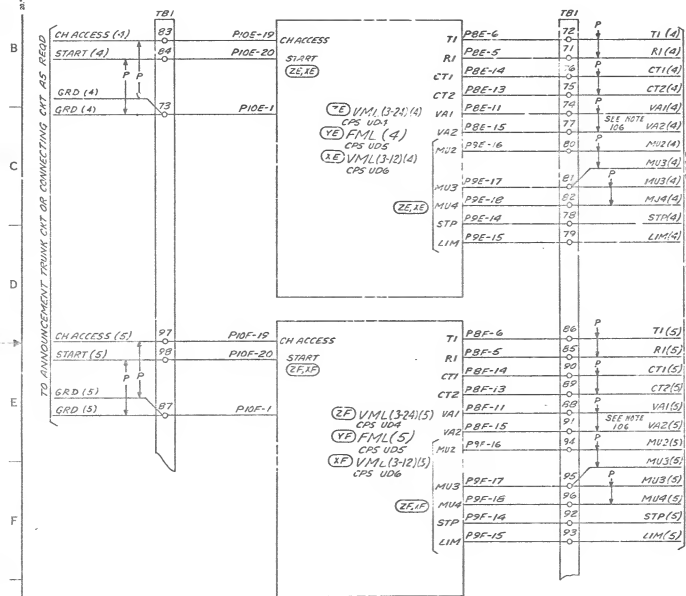
B3

PART OF FS I SYSTEM INTERCONNECTIONS



13A ANNOUNCEMENT SYSTEM		DWG SIZE 65	ISSUE /
BELL LABORATORIES		SD-97753-01	B4

PART OF FS I
SYSTEM INTERCONNECTIONS



13A ANNOUNCEMENT SYSTEM

DWG S1
4C

ISSUE
/

BELL LABORATORIES

SD-97753-01

85

APP FIG. 1

CIRCUIT PACK

EQUIP LOC	PDS 1	PDS 2	PDS 3	PDS 4	PDS 4	PDS 4	PDS 5	PDS 5	PDS 5	PDS 5	PDS 6	PDS 6	PDS 6	PDS 7	PDS 7	PDS 8	PDS 8	PDS 8
DESIG	POWER SUPPLY	ENGINEER DRIVER	TIMING & CONTROL	VPL(3-24)(0)	FPL (0)	VPL(3-12)(0)	VPL(3-24)(1)	FPL (1)	VPL(3-12)(1)	VPL(3-24)(2)	FPL (2)	VPL(3-12)(2)	VPL(3-24)(3)	FPL (3)	VPL(3-12)(3)	VPL(3-24)(4)	FPL (4)	VPL(3-12)(4)
CODE	UD1	UD2	UD3	UD4	UD5	UD6	UD4	UD5	UD6	UD4	UD5	UD6	UD4	UD5	UD6	UD4	UD5	UD6
OPTION				24	1A	1A	2B	1B	1B	2C	1C	1C	2D	1D	1D	2E	1E	1E
ELEM IDENT																		
TERM. FS LOC	1F2	1F2	1B7	2C4	2C4	2C4	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6
TERM. FS LOC	1G4	1G2	2G2	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5
TERM. FS LOC			3E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2	4E2

EQUIP LOC	PDS 9	PDS 9	PDS 9	PDS 10	PDS 10	PDS 10	PDS 11	PDS 11	PDS 11				
DESIG	VPL(3-24)(5)	FPL (5)	VPL(3-12)(5)	VPL(3-24)(6)	FPL (6)	VPL(3-12)(6)	VPL(3-24)(7)	FPL (7)	VPL(3-12)(7)				
CODE	UD6	UD5	UD6	UD4	UD5	UD6	UD4	UD5	UD6				
OPTION	2F	1F	2F	2S	1G	1G	2H	1H	1A				
ELEM IDENT													
TERM. FS LOC	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6	2D6				
TERM. FS LOC	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5	3E5				
TERM. FS LOC	3E2	3E2	3E2	3E2	3E2	3E2	3E2	3E2	3E2				

CAPACITORS

DESIG	LOC	CODE
C1	1A1	5420, 1MF
C2	1A1	5420, 1MF

JACK

41 SWITCHPART

TAPE



JACK

223AH

HANDSET



TERMINAL STRIP

DESIG	LOC	CODE
T01	1A2, 1A9, 1B1, 300, 400, 403, 405, 409, 500, 505, 505, 509	F/D SD-97882-30

13A ANNOUNCEMENT SYSTEM

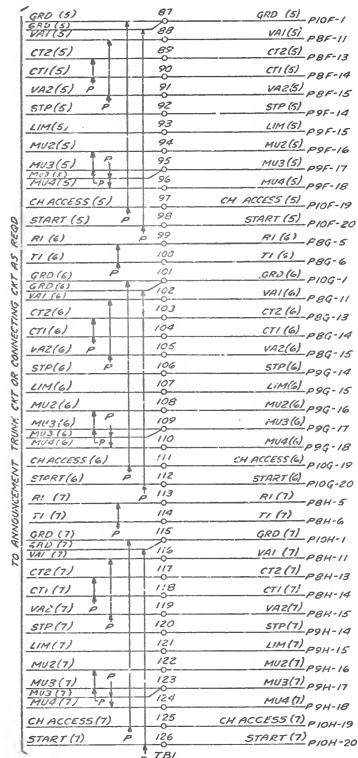
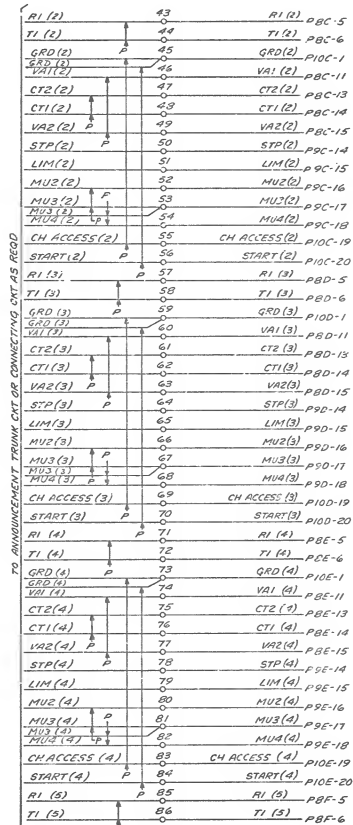
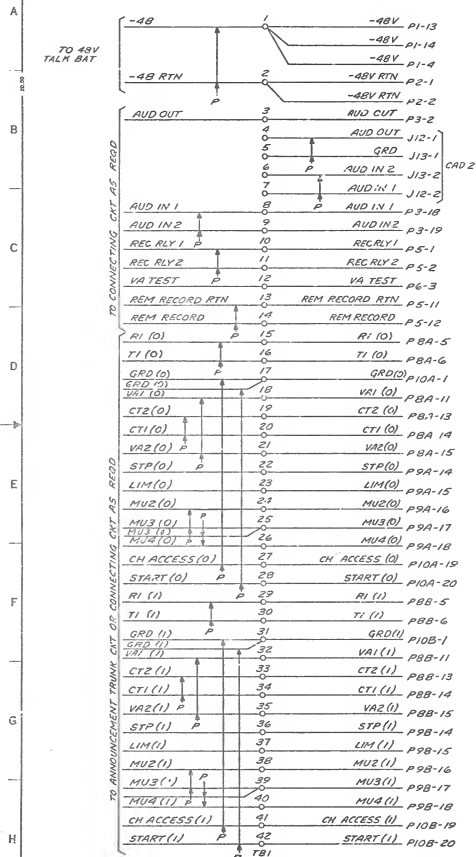
Dwg SIZE
65ISSUE
/

BELL LABORATORIES

SD-97753-01

-CI

PART OF CADI BACKPLANE WIRING



13A ANNOUNCEMENT SYSTEM

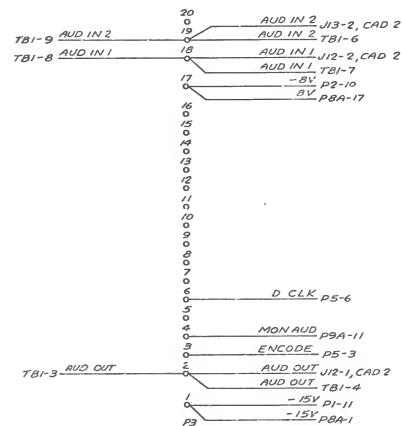
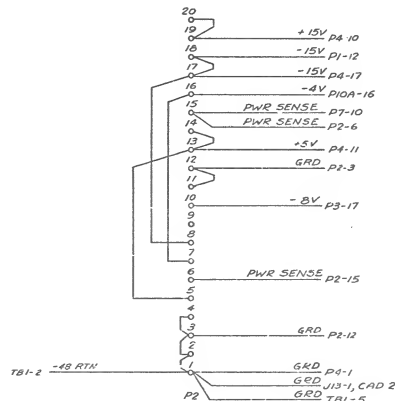
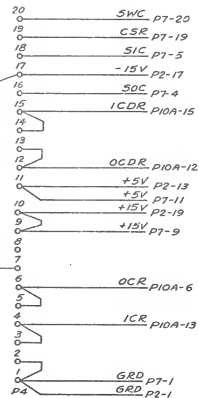
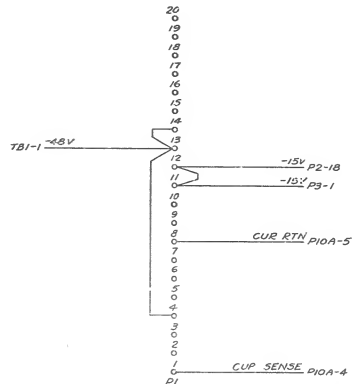
DWG SIZE
65

BELL LABORATORIES

SD-97753-01

61

PART OF CAD 1 BACKPLANE WIRING



NOTE: NO INSTALLER WIRING ON SHEETS
G2 TRAV 511.

13A ANNOUNCEMENT SYSTEM		
BELL LABORATORIES	SD-97753-01	DWG SIZE 6C ISSUE / G2

PART OF CAD I BACKPLANE WIRING

20 REPL P8A-20
19 OE 1 INFO P8A-19
18 STGCB P8A-18
17
16
15 SILEN P8A-16
14
13 FML CT RLY1 P8A-4
12 FML CKT RLY2 P8A-3
11
10
9
8
7 SOR P8A-7
6 D CLK P3-6
5 OSC OUT
4 OSC IN
3
2 ENCODE P3-3
1
0
TBI-14 REM REC
TBI-13 REM REC RTN
TBI-11 REC RLY 2
TBI-10 REC RLY 1
P5

20 DT COMP SW P9A-20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
TBI-12 VA TEST
P6

20 SWC P4-20
19 CSR P4-19
18 MATCH P10A-18
17 REPH P10A-17
16 24K CLK OUT
15
14 FML CT P10A-14
13 TEO CLK OUT
12
11
10
9
8
7
6
5
4
3
2
1
0
TBI-12 VA TEST
P6

13A ANNOUNCEMENT SYSTEM		ENG SIZE 65	ISSUE 1
BELL LABORATORIES	SD-97753-01	G3	

PART OF CAD I BACKPLANE WIRING

20 REPL P5-20
19 REPL P88-20
19 GEN INFO P5-19
18 STROBE P5-18
18 STROBE P88-18
17 -8V P3-17
16 -8V P88-17
16 SILEN P5-16
16 SILEN P88-16

TBI-2 VAZ (0)
TBI-10 CTI (0)
TBI-19 CTZ (0)
TBI-18 VAI (0)

10 REC P5-10
9 REC P88-10
9 ERASE P5-9
8 ERASE P88-9
8 CHP CLK P5-8
7 CHP CLK P88-8
7 SOS P5-7
7 SOS P88-7

TBI-16 TI (0)
TBI-15 RI (0)

5 FML CT RLY 1 P5-15
3 FML CT RLY 1 P88-9
3 FML CT RLY 2 P5-13
3 FML CT RLY 2 P88-3
0 FILTER GED P88-2

TBI-2 -40V RTN

1 -15V P3-1
P8A -15V P88-1

20 DT COMP SW P6-20
0 DT COMP SW P88-20

TBI-26 MU6 (0)
TBI-25 MU3 (0)
TBI-24 MU2 (0)
TBI-23 LIM (0)
TBI-22 STP (0)

11 MON AUD P3-4
11 MON AUD P88-11
10 CHP 4 P6-10
9 CHP 4 P88-10
9 CHP 3 P6-9
8 CHP 3 P88-9
8 CHP 2 P6-8
7 CHP 2 P88-8
7 CHP 1 P6-7
6 CT GATE P6-6
6 CT GATE P88-6
5 LIM RST P6-5
5 LIM RST P88-5
4 ST ENAB P6-4
4 ST ENAB P88-4
3 VA TEST P6-3
3 VA TEST P88-3
2 DET RST P6-2
2 DET RST P88-2

1 0
P9A

TBI-28 START (0)
TBI-27 CN ACCESS (0)

18 MATCH P7-18
18 MATCH P10B-18
17 REPH P7-17
17 REPH P10B-17
16 -4V P2-16
16 -4V P10B-16
15 ICDB P4-15
15 ICDB P10B-15
14 FML CT P7-14
14 FML CT P10B-14
13 ICR P4-4
13 ICR P10B-13
12 OCDB P4-12
12 OCDB P10B-12
11 +5V P7-11
11 +5V P10B-11
TBI-2 -40V RTN
10 FILTER GED P10B-10

9 +15V P7-9
9 +15V P10B-9
8 LST CHP P7-8
8 LST CHP P10B-7
7 PWR QSS P7-7
7 PWR QSS P10B-7
6 PWR OFF P10B-7
6 OCR P4-6
6 OCR P10B-6
5 CUR RTN P1-5
5 CUR RTN P10B-5
4 CUR SENSE P1-1
4 CUR SENSE P10B-4

3 0
2 0
1 0
TBI-17 GRD (0)
P10A GRD P7-1
P10A GRD P10B-1

13A ANNOUNCEMENT SYSTEM

DWG SIZE
A5

ISSUE
/

BELL LABORATORIES

SD-97753-01

G4

PART OF CAD 1 BACKPLANE WIRING

20 REPL PBA-20
19 GEN INFO PBC-20
18 GEN INFO PBC-19
17 STRAGE PBA-18
16 STRAGE PBC-18
15 -8V PBA-17
14 -8V PBC-17
13 SILEN PBA-16
12 SILEN PBC-16
11 V4.2 (1) PBA-15
10 CT1 (1) PBC-15
9 CT2 (1) PBA-14
8 CT2 (1) PBC-14
7 V4.1 (1) PBA-13
6 RFE PBA-10
5 RFE PBC-10
4 ERASE PBA-9
3 ERASE PBC-9
2 CHP CLK PBA-8
1 CHP CLK PBC-8
0 SOR PBA-7
SOR PBC-7
TBI-30 TI (1)
TBI-29 RI (1)
6 FM CT RLY 1 PBA-6
5 FM CT RLY 1 PBC-6
4 FM CT RLY 2 PBA-3
3 FM CT RLY 2 PBC-3
2 FM CT RLY 2 PBA-2
1 FM CT RLY 2 PBC-2
0 FILTER GRD PBA-1
-15 V PBC-1
PBA

20 DT COMP SW PBA-20
19 DT COMP SW PBC-20
18 MU4 (1) PBA-18
17 MU3 (1) PBA-17
16 MU2 (1) PBA-16
15 LIM (1) PBA-15
14 STP (1) PBA-14
13 STP (1) PBC-14
12 STP (1) PBC-13
11 MON AUD PBA-11
10 MON AUD PBC-11
9 CHP 4 PBA-10
8 CHP 4 PBC-10
7 CHP 3 PBA-9
6 CHP 3 PBC-9
5 CHP 2 PBA-8
4 CHP 2 PBC-8
3 CHP 1 PBA-7
2 CHP 1 PBC-7
1 CT GATE PBA-6
0 CT GATE PBC-6
5 LIM PST PBA-5
4 LIM PST PBC-5
3 ST ENAB PBA-4
2 ST ENAB PBC-4
1 VA TEST PBA-3
0 VA TEST PBC-3
6 DET AST PBA-2
5 DET AST PBC-2
4 DET AST PBA-1
3 DET AST PBC-1
2 DET AST PBA-1
1 DET AST PBC-1
0 PBA

TBI-42 START (1) PBA-20
TBI-41 CH ACCESS (1) PBC-20
19 MATCH PBA-18
18 MATCH PBC-18
17 RFPN PBA-17
16 RFPN PBC-17
15 -4V PBA-16
14 -4V PBC-16
13 ICOR PBA-15
12 ICOR PBC-15
11 FM CT PBA-14
10 FM CT PBC-14
9 ICR PBA-13
8 ICR PBC-13
7 OCOR PBA-12
6 OCOR PBC-12
5 +5V PBA-11
4 +5V PBC-11
3 FILTER GRD PBA-10
2 FILTER GRD PBC-10
1 +5V PBA-9
0 +5V PBC-9
8 EST ENP PBA-8
7 EST ENP PBC-8
6 PWD OFF PBA-7
5 PWD OFF PBC-7
4 BCP PBA-6
3 BCP PBC-6
2 CUP RTN PBA-5
1 CUP RTN PBC-5
0 CUP RTN PBA-4
CUP SENSE PBA-4
CUP SENSE PBC-4
3 GRD PBA-1
2 GRD PBC-1
1 GRD PBA-1
0 GRD PBC-1
TBI-31 GRD (1) PBA-1
PBA

13A ANNOUNCEMENT SYSTEM		DWG SIZE	ISSUE
		65	/
BELL LABORATORIES	SD-97753-01		G5

PART OF CAD 1 BACKPLANE WIRING

20 REFL P88-20
 19 GEN INFO P88-19
 18 STRGGE P88-18
 17 -BY P88-17
 16 SILEN P88-16
 15 SILEN P88-15
 14 CT1 (2) P88-14
 13 CT2 (2) P88-13
 12 V81 (2) P88-12
 11 RYC P88-11
 10 RYC P88-10
 9 ERASE P88-9
 8 CHP CLK P88-8
 7 SOR P88-7
 6 SOR P88-6
 5 T1 (2) P88-5
 4 R1 (2) P88-4
 3 FNL CT RLY 1 P18-3
 2 FNL CT RLY 2 P88-2
 1 FNL CT RLY 3 P88-1
 0 FILTER GRD P88-0
 -15V P88-1
 -15V P88-0

TBI-59 MUX (2)
 TBI-53 MUX (2)
 TBI-52 MUX (2)
 TBI-51 LIM (2)
 TBI-50 STP (2)

20 DT COMP SW P98-20
 19 DT COMP SW P98-19
 18 DT COMP SW P98-18
 17 DT COMP SW P98-17
 16 DT COMP SW P98-16
 15 DT COMP SW P98-15
 14 DT COMP SW P98-14
 13 DT COMP SW P98-13
 12 DT COMP SW P98-12
 11 DT COMP SW P98-11
 10 DT COMP SW P98-10
 9 DT COMP SW P98-9
 8 DT COMP SW P98-8
 7 DT COMP SW P98-7
 6 DT COMP SW P98-6
 5 DT COMP SW P98-5
 4 DT COMP SW P98-4
 3 DT COMP SW P98-3
 2 DT COMP SW P98-2
 1 DT COMP SW P98-1
 0 DT COMP SW P98-0

TBI-56 START (2)
 TBI-55 CN ACCESS (2)

20 MATCH P108-20
 19 MATCH P108-19
 18 REPH P108-18
 17 REPH P108-17
 16 -BY P108-16
 15 ICOR P108-15
 14 ICOR P108-14
 13 FNL CT P108-13
 12 FNL CT P108-12
 11 ICOR P108-11
 10 ICOR P108-10
 9 ICOR P108-9
 8 ICOR P108-8
 7 ICOR P108-7
 6 ICOR P108-6
 5 ICOR P108-5
 4 ICOR P108-4
 3 ICOR P108-3
 2 ICOR P108-2
 1 ICOR P108-1
 0 ICOR P108-0

TBI-45 GRD (2)
 PNC

13A ANNOUNCEMENT SYSTEM		DWG SIZE 45	ISSUE /
BELL LABORATORIES	SD-97753-01	66	

PART OF CAD I BACKPLANE WIRING

20 RFPL P8C-20
 19 REPL P8E-20
 19 GEN INFO P8C-19
 18 STROBE P8E-19
 17 -BV P8C-17
 16 -BV P8E-17
 16 SILEN P8C-16
 15 SILEN P8E-16
 TBI-63 VA2(3)
 TBI-62 CT1(3)
 TBI-61 CT2(3)
 TBI-60 VA1(3)
 10 REC P8C-10
 9 REC P8E-10
 9 ERASE P8C-9
 9 ERASE P8E-9
 9 CNP CLK P8C-8
 7 CNP CLK P8E-8
 7 SOR P8C-7
 6 SOR P8E-7
 TBI-58 TI(3)
 TBI-57 RI(3)
 4 FML CT RLV1 P8C-4
 3 FML CT RLV2 P8C-3
 3 FML CT RLV2 P8E-3
 2 FILTER GRD P8C-2
 2 FILTER GRD P8E-2
 1 -15V P8C-1
 1 -15V P8E-1
 P8D

TBI-68 MUA(3)
 TBI-67 MU3(3)
 TBI-66 MU2(3)
 TBI-65 LIM(3)
 TBI-64 STP(3)

20 DT COMP SW P9C-20
 19 DT COMP SW P9E-20
 18
 17
 16
 15
 14
 13
 12
 11
 10 MON AUD P9C-11
 10 MON AUD P9E-11
 10 CNP 4 P9C-10
 9 CNP 3 P9C-9
 9 CNP 3 P9E-9
 8 CNP 2 P9C-8
 8 CNP 2 P9E-8
 7 CNP 1 P9C-7
 6 CT GATE P9C-6
 6 CT GATE P9E-6
 5 LIM RST P9C-5
 5 LIM RST P9E-5
 4 ST ENAB P9C-4
 4 ST ENAB P9E-4
 3 VA TEST P9C-3
 3 VA TEST P9E-3
 2 DET RST P9C-2
 2 DET RST P9E-2
 1
 0
 P9D

TBI-70 START(3)
 TBI-69 CH ACCESS(3)

18 MATCH PIOC-18
 17 MATCH PIOC-18
 17 REPH PIOC-17
 16 REPH PIOC-17
 16 -4V PIOC-16
 16 -4V PIOC-16
 15 ICOR PIOC-15
 15 ICOR PIOC-15
 14 FML CT PIOC-14
 14 FML CT PIOC-14
 13 ICR PIOC-13
 13 ICR PIOC-13
 12 OCOR PIOC-12
 12 OCOR PIOC-12
 11 +5V PIOC-11
 10 +5V PIOC-11
 9 FILTER GRD PIOC-10
 9 FILTER GRD PIOC-10
 9 +15V PIOC-9
 9 +15V PIOC-9
 8 LST CNP PIOC-8
 8 LST CNP PIOC-8
 7 PWR OFF PIOC-7
 7 PWR OFF PIOC-7
 6 ODR PIOC-6
 6 ODR PIOC-6
 5 CUR RTH PIOC-5
 5 CUR RTH PIOC-5
 4 CUR SENSE PIOC-4
 4 CUR SENSE PIOC-4
 3
 2
 1
 0
 TBI-59 GRD(3)
 PIOD
 GRD PIOC-1
 GRD PIOC-1

13A ANNOUNCEMENT SYSTEM

DWG SIZE
6S

ISSUE
/

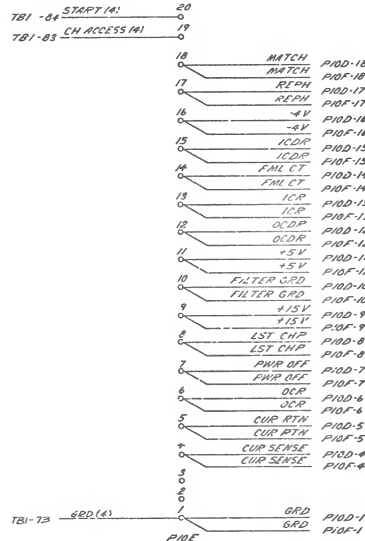
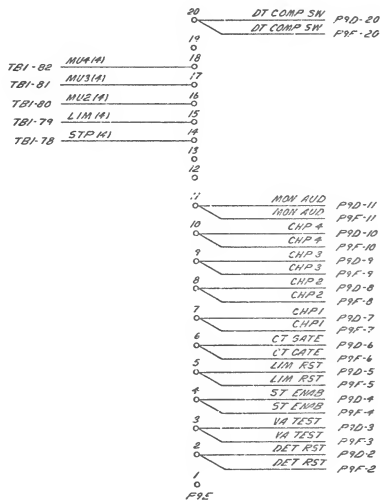
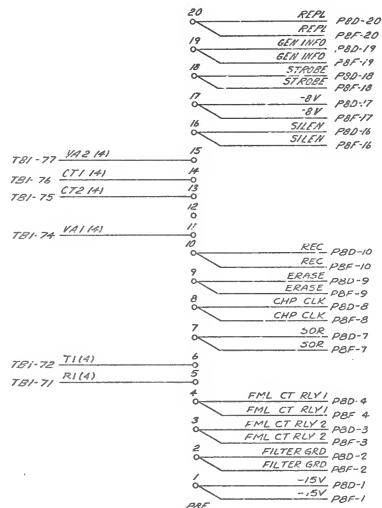
BELL LABORATORIES

SD-97753-01

GT

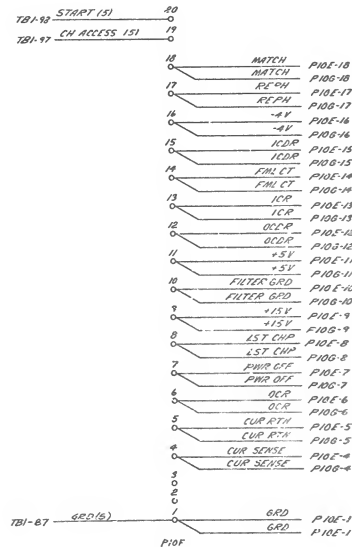
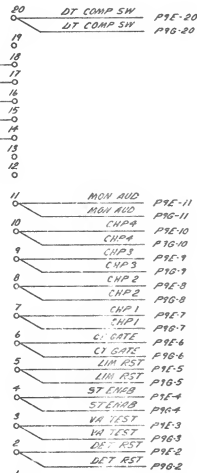
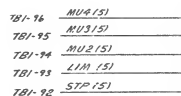
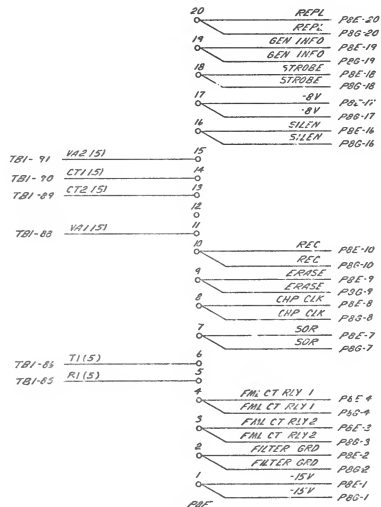
PRINTED IN U.S.A.

PART OF CAD I BACKPLANE WIRING



13A ANNOUNCEMENT SYSTEM		DWG. SIZE 6S	ISSUE /
BELL LABORATORIES	SD-97753-01	G8	

PART OF CAD I BACKPLANE WIRING

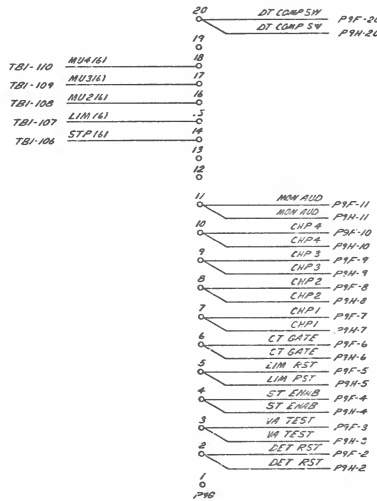
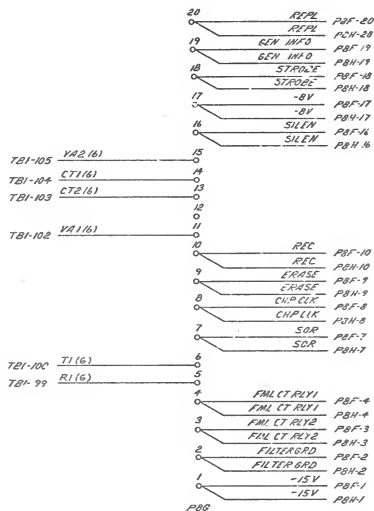


138 ANNOUNCEMENT SYSTEM

BELL LABORATORIES SD-97753-01

DWG SIZE 6C
ISSUE /
G9

PART OF CAD BACKPLANE WIRING



PART OF CAD 1 BACKPLANE WIRING

20 REPL PBG-20
19 GEN INFO PBG-19
18 STROBE PBG-18
17 -BY PBG-17
16 SILEN PBG-16
15
14
13
12
11
10 REC PBG-10
9 ERASE PBG-9
8 CHP CLK PBG-8
7 SOR PBG-7
6
5
4
3 FML CT RLY 1 PBG-4
2 FML CT RLY 2 PBG-3
1 FILTER GRD PBG-2
0 -15V PBG-1
PBG

TBI-119 VAE (7)
TBI-118 CT1 (7)
TBI-117 CT2 (7)
TBI-116 VAI (7)
TBI-114 TI (7)
TBI-113 RI (7)

20 DT COMP SW PBG-20
19
18
17
16
15
14
13
12
11
10 MDN AUD PBG-11
9 CHP 4 PBG-10
8 CHP 3 PBG-9
7 CHP 2 PBG-8
6 CHP 1 PBG-7
5 CT GATE PBG-6
4 LIM RST PBG-5
3 ST ENAB PBG-4
2 VA TEST PBG-3
1 DET RST PBG-2
0
PBG

TBI-124 MU4 (7)
TBI-123 MU3 (7)
TBI-122 MU2 (7)
TBI-121 LIM (7)
TBI-120 STP (7)

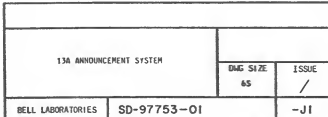
20 START (7)
19 CH ACCESS (7)
18
17 MATCH P10Q-18
16 REPH P10Q-17
15 -4V P10Q-16
14 ICDR P10Q-15
13 FML CT P10Q-14
12 ICR P10Q-13
11 OCCR P10Q-12
10 +5V P10Q-11
9 FILTER GRD P10Q-10
8 +12V P10Q-9
7 LST CHP P10Q-8
6 PLR OFF P10Q-7
5 OCR P10Q-6
4 CUR RTN P10Q-5
3 CUR SENSE P10Q-4
2
1
0
TBI-115 CRD (7) GRD P10Q-1
P10H

CAD 2

J11
1 TAPE INPUT 1 C1 CAP
2 TAPE INPUT 2 C2 CAP
0
C1 CAP
1 J11
2 J12
0
C2 CAP
1 J11
2 J13
0
J12
1 AUD OUT TBI-4, CAD 1
2 AUD IN 1 TBI-7, CAD 7 B
0 C1 CAP
J13
1 AUD GRD TBI-5, CAD 1
2 AUD IN 2 TBI-6, CAD 1 B
0 C2 CAP

13A ANNOUNCEMENT SYSTEM		DWG SIZE 85	ISSUE /
BELL LABORATORIES	SD-97753-01	G11	

P/O CPS U
POWER SUPPLY



P/O CPS UDI

POWER SUPPLY

COMPONENT LIST

CAPACITOR

DESIG	LOC	CODE
C1	104	KS-19774.L7, .01
C2	104	KS-19774.L7, .01
C3	106	KS-19774.L7, 4700PF
C4	106	KS-19774.L7, 4700PF
C5	106	KS-19774.L7, 4700PF
C6	108	4700-228 W200 J45C SPRAGUE, 2200
C7	108	4700-228 W200 J45C SPRAGUE, 2200
C8	109	5966, 1
C9	106	KS-19774.L7, 4700PF
C10	106	KS-19774.L7, 4700PF
C11	106	KS-19774.L7, 4700PF
C12	108	4700-228 W200 J45C SPRAGUE, 2200
C13	109	6025, 40
C14	109	5966, 1
C15	100	KS-19774.L12, 0.1
C16	101	KS-20736.L6, 1
C17	101	6025, 40
C18	103	KS-19774.L12, .047
C19	103	KS-20736.L6, 1
C20	108	4700-228 W200 J45C SPRAGUE, 2200
C21	109	5966, 1
C22	109	5966, 1
C23	109	5966, 1
C24	102	6074, 5
C25	105	KS-20736.L4, 0.1
C26	105	KS-19774.L7, 0.01
C27	107	KS-20736.L4, 0.1
C28	107	KS-20736.L4, 0.1
C29	107	KS-20736.L4, 0.1
C30	108	KS-19774.L12, .047
C31	100	5425, .01
C32	100	5966, 1
C33	104	4700-227 W200 J45C SPRAGUE, 220
C34	107	KS-20736.L4, 0.01
C35	108	KS-20736.L4, 0.1
C36	109	6025, 40
C37	105	KS-20736.L4, 0.1
C38	109	KS-20736.L4, 0.01

FUSE

DESIG	LOC	CODE
F1	100	70C

INDUCTION COIL

DESIG	LOC	CODE
L1	107	1301B
L2	107	1301B
L3	107	1301B
L4	107	1301B

INTEGRATED CIRCUIT

DESIG	LOC	CODE
IC1	102	5260
IC2	102	5035
IC3	106	6137
IC4	104	5037S
IC5	107, 107	5024J
IC6	108	614H

RESISTOR (CONT)

DESIG	LOC	CODE
R1	109	1% .01 K Ω
R2	107	KS-20616.L10, 5.1K Ω
R3	107	28.7K Ω
R4	103	4.7K Ω
R5	106	KS-20616.L10, 5.1K Ω
R6	106	KS-20616.L10, 9.5K Ω
R7	107	1.47M Ω
R8	108	KS-20616.L10, 1.47M Ω
R9	109	21.5K Ω
R10	109	180
R11	109	12.7K Ω
R12	109	3.1K Ω
R13	105	KS-20616.L10, 10K Ω
R14	100	100
R15	100	100
R16	100	100
R17	100	100
R18	100	100
R19	100	100
R20	100	100
R21	107	KS-20616.L10, 1.47M Ω
R22	107	KS-20616.L10, 1.47M Ω
R23	105	100
R24	106	100

SWITCH

DESIG	LOC	CODE
S1	102	2201WBRD DPDT
		C & K COMPONENTS INC

TRANSFORMER

DESIG	LOC	CODE
T1	105	3003T

TRANSISTOR

DESIG	LOC	CODE
Q1	103	51F
Q2	106	2N2405
Q3	104	KS-20616.L1, 51F
Q4	104	2N2405
Q5	104	KS-20616.L1, 51F
Q6	107	2N2405
Q7	100	2N2405
Q8	103	51E
Q9	104	51E
Q10	104	51E
Q11	107	51F
Q12	100	51F
Q13	101	51G
Q14	102	51G
Q15	109	51F
Q16	109	51F
Q17	108	51F
Q18	109	51F

CONNECTOR

DESIG	LOC	CODE
J1	100	9638-20
J2	100	9638-40

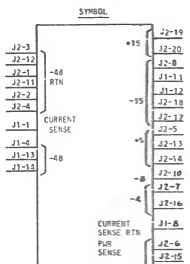
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DESIG	LOC	CODE
CR1	106	485AE
CR2	106	485AE
CR3	106	485AE
CR4	105	485AE
CR5	105	485AE
CR6	106	485AE
CR7	100	5316
CR8	101	808J
CR9	104	4598B
CR10	103	5308
CR11	103	5316
CR12	103	5316
CR13	105	4598B

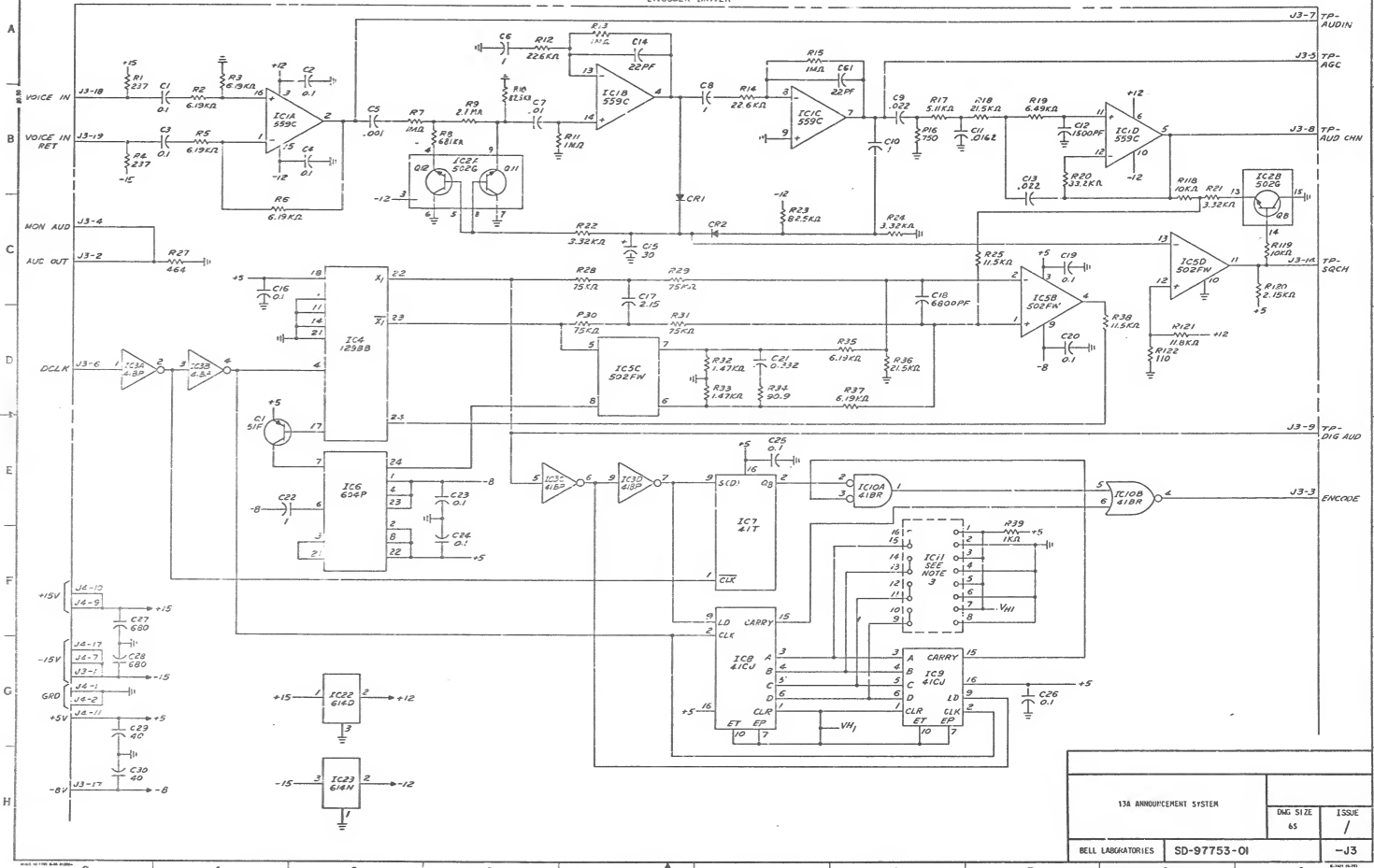
FERRITE BEAD

DESIG	LOC	CODE
SB1	106	57-1559
SB2	107	57-1559
SB3	107	57-1559
SB4	106	57-1559
SB5	106	57-1559
SB6	106	57-1559

MANUFACTURING REFERENCE	
CATEGORY	NO.
CONNECTOR ON FRAME	

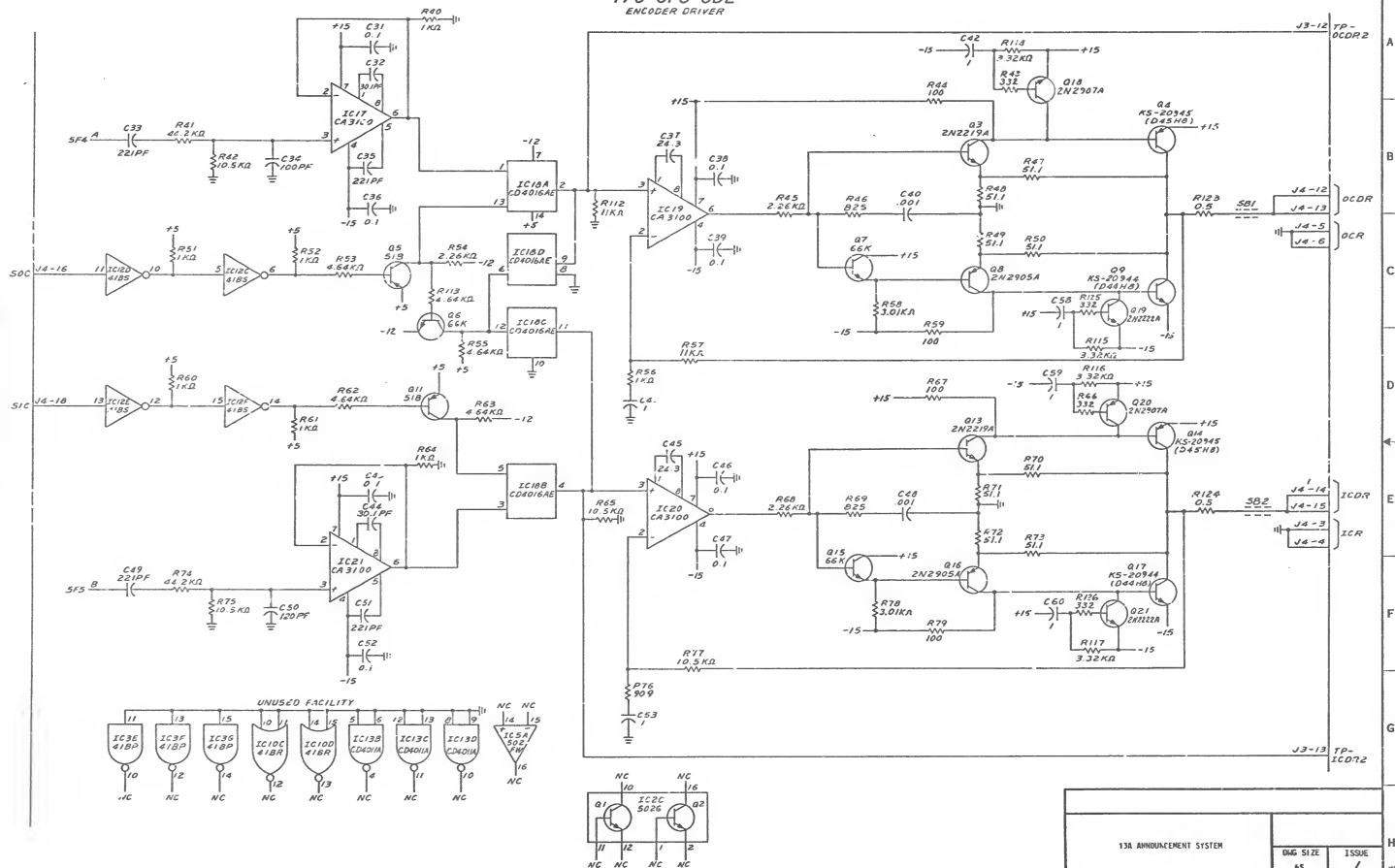


P/O CPS UD2 ENCODER DRIVER



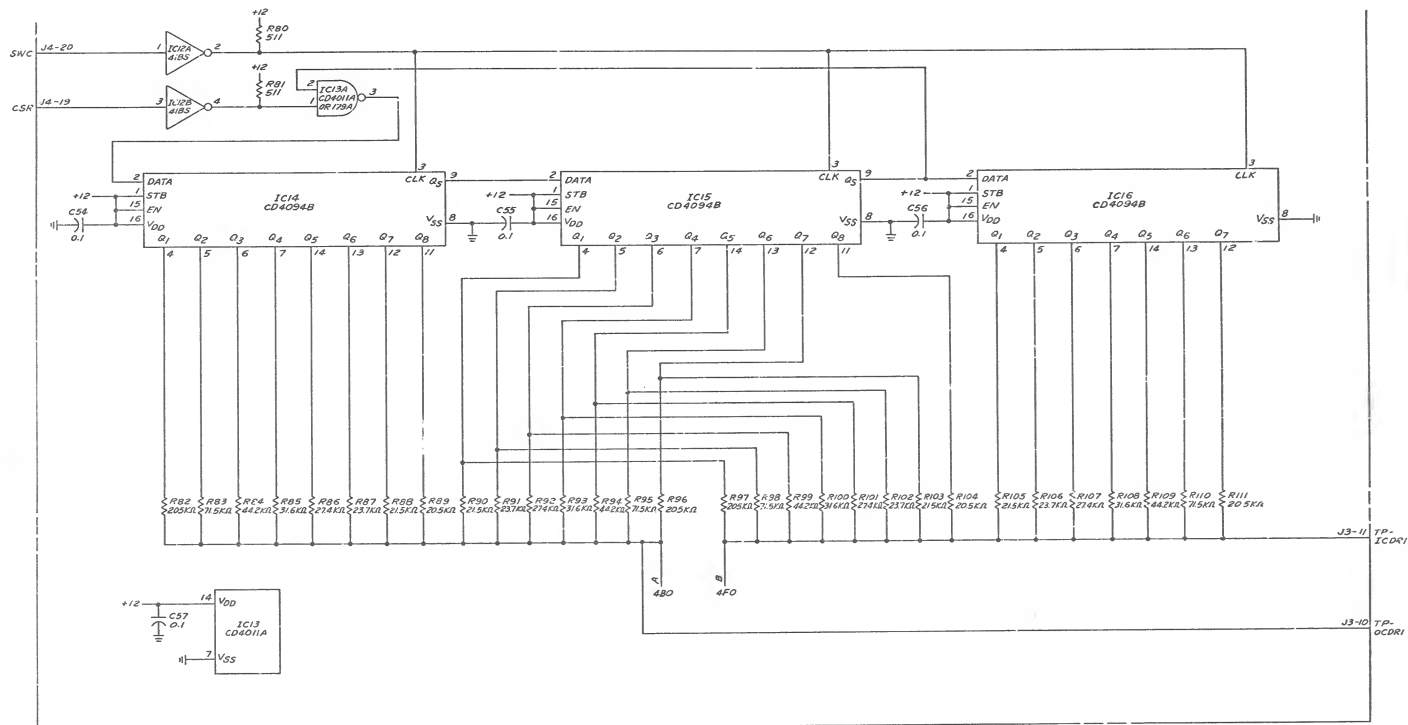
15A ANNOUNCEMENT SYSTEM		ENG SIZE	ISSUE
BELL LABORATORIES		65	/
SD-97753-01		-J3	

P/O CPS UD2 ENCODER DRIVER



138 ANNOUNCEMENT SYSTEM		ENC. SIZE	ISSUE
BELL LABORATORIES		65	/
SD-97753-01			-J4

P/O CPS UD2 ENCODER DRIVER



13A ANNOUNCEMENT SYSTEM		DWG. SIZE	ISSUE
		6S	/
BELL LABORATORIES	SD-97753-01	-J5	

P/O CPS UD2

ENCODED DRIVER

MANUFACTURING REFERENCE

COMPONENT LIST

CAPACITOR

DESIGN LOC CODE

C1 330

C2 330

C3 330

C4 330

C5 330

C6 330

C7 330

C8 330

C9 330

C10 330

C11 330

C12 330

C13 330

C14 330

C15 330

C16 330

C17 330

C18 330

C19 330

C20 330

C21 330

C22 330

C23 330

C24 330

C25 330

C26 330

C27 330

C28 330

C29 330

C30 330

C31 330

C32 330

C33 330

C34 330

C35 330

C36 330

C37 330

C38 330

C39 330

C40 330

C41 330

C42 330

C43 330

C44 330

C45 330

C46 330

C47 330

C48 330

C49 330

C50 330

C51 330

C52 330

C53 330

C54 330

C55 330

C56 330

C57 330

C58 330

C59 330

C60 330

C61 330

C62 330

C63 330

C64 330

C65 330

C66 330

C67 330

C68 330

C69 330

C70 330

C71 330

C72 330

C73 330

C74 330

C75 330

C76 330

C77 330

C78 330

C79 330

C80 330

C81 330

C82 330

INTEGRATED CIRCUIT

DESIGN LOC CODE

IC1 330

IC2 330

IC3 330

IC4 330

IC5 330

IC6 330

IC7 330

IC8 330

IC9 330

IC10 330

IC11 330

IC12 330

IC13 330

IC14 330

IC15 330

IC16 330

IC17 330

IC18 330

IC19 330

IC20 330

IC21 330

IC22 330

IC23 330

IC24 330

IC25 330

IC26 330

IC27 330

IC28 330

IC29 330

IC30 330

IC31 330

IC32 330

IC33 330

IC34 330

IC35 330

IC36 330

IC37 330

IC38 330

IC39 330

IC40 330

IC41 330

IC42 330

IC43 330

IC44 330

IC45 330

IC46 330

IC47 330

IC48 330

IC49 330

IC50 330

IC51 330

IC52 330

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IC56 330

IC57 330

IC58 330

IC59 330

IC60 330

IC61 330

IC62 330

IC63 330

IC64 330

IC65 330

IC66 330

IC67 330

IC68 330

IC69 330

IC70 330

IC71 330

IC72 330

IC73 330

IC74 330

IC75 330

IC76 330

IC77 330

IC78 330

IC79 330

IC80 330

IC81 330

IC82 330

RESISTOR (CONT)

DESIGN LOC CODE

R1 330

R2 330

R3 330

R4 330

R5 330

R6 330

R7 330

R8 330

R9 330

R10 330

R11 330

R12 330

R13 330

R14 330

R15 330

R16 330

R17 330

R18 330

R19 330

R20 330

R21 330

R22 330

R23 330

R24 330

R25 330

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R71 330

R72 330

R73 330

R74 330

R75 330

R76 330

R77 330

R78 330

R79 330

R80 330

R81 330

R82 330

RESISTOR (CONT)

DESIGN LOC CODE

R83 330

R84 330

R85 330

R86 330

R87 330

R88 330

R89 330

R90 330

R91 330

R92 330

R93 330

R94 330

R95 330

R96 330

R97 330

R98 330

R99 330

R100 330

R101 330

R102 330

R103 330

R104 330

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R155 330

R156 330

R157 330

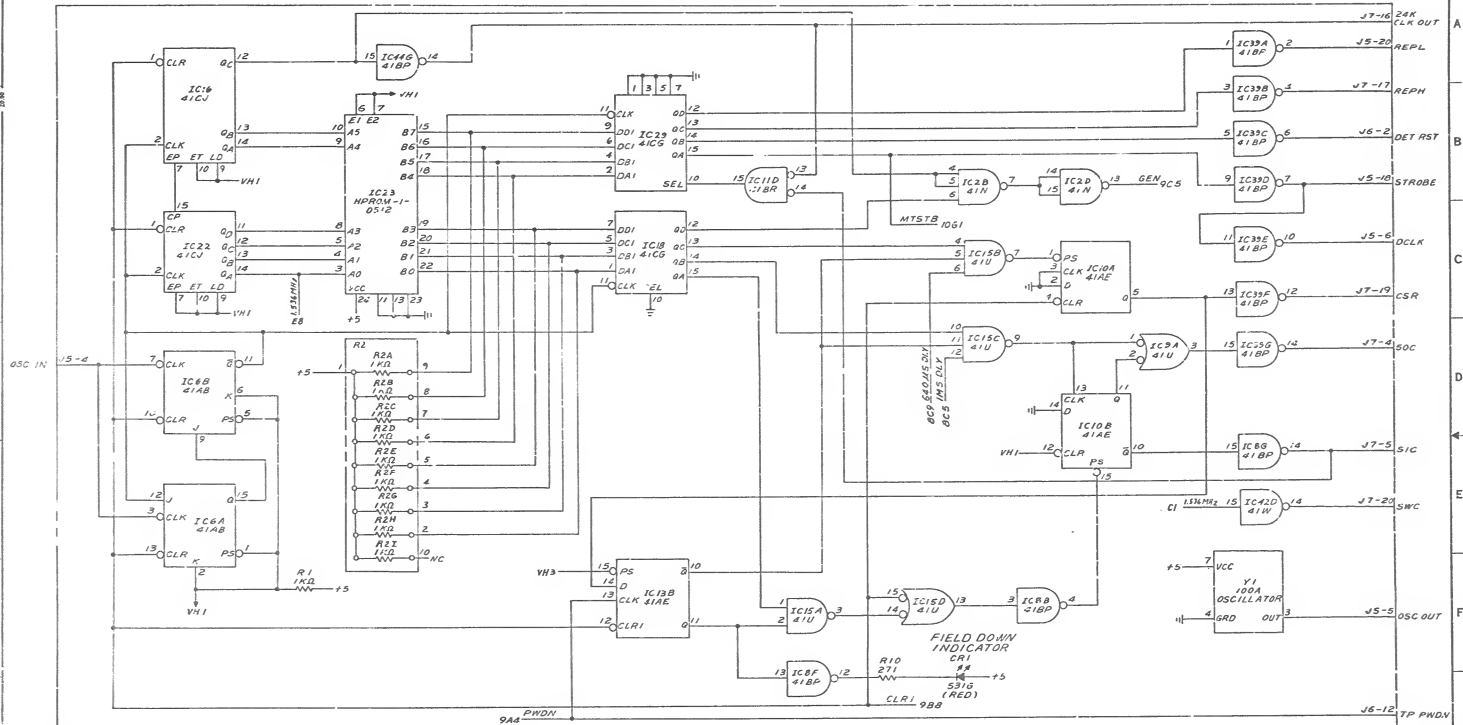
R158 330

R159 330

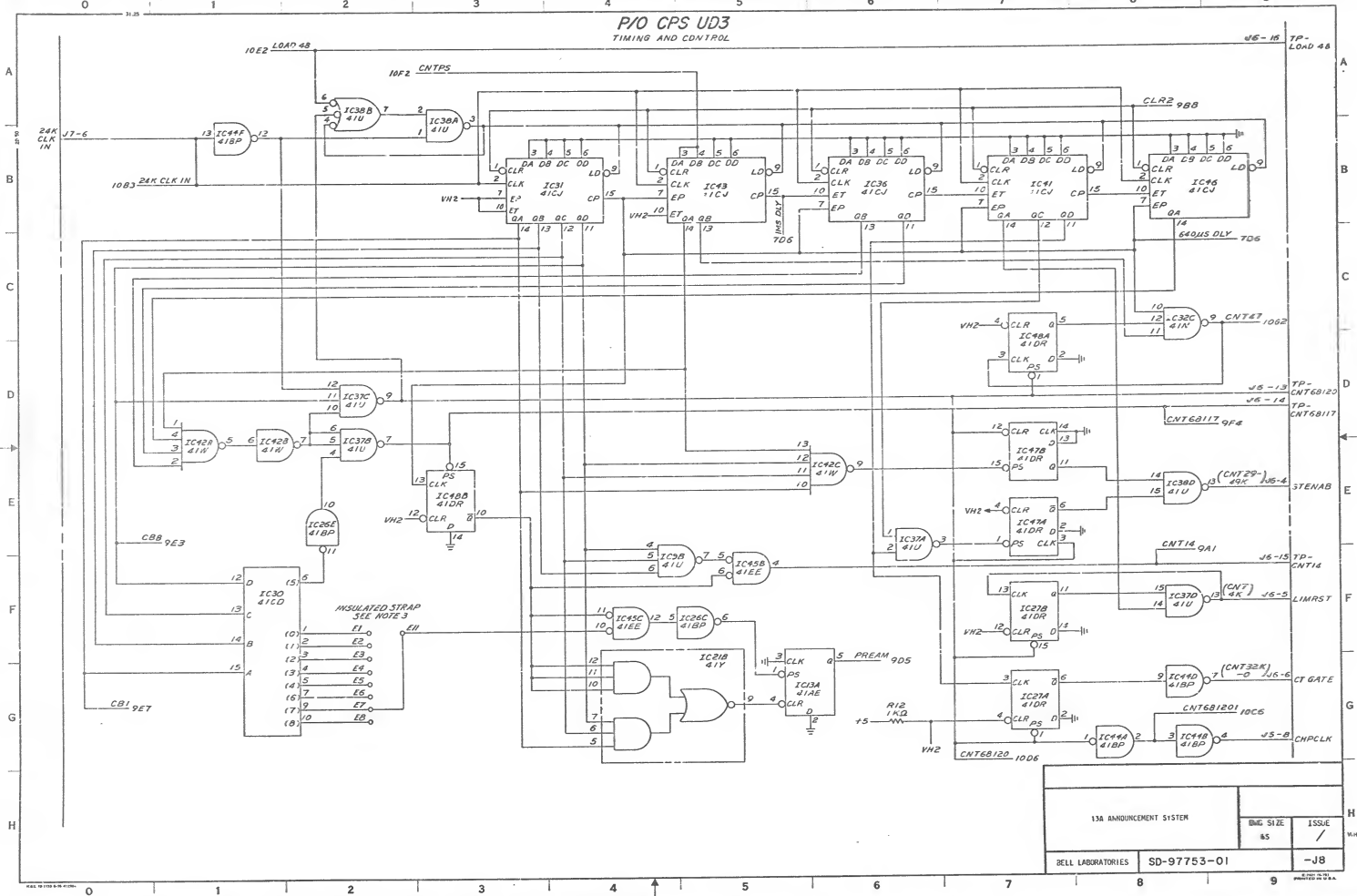
R160 330

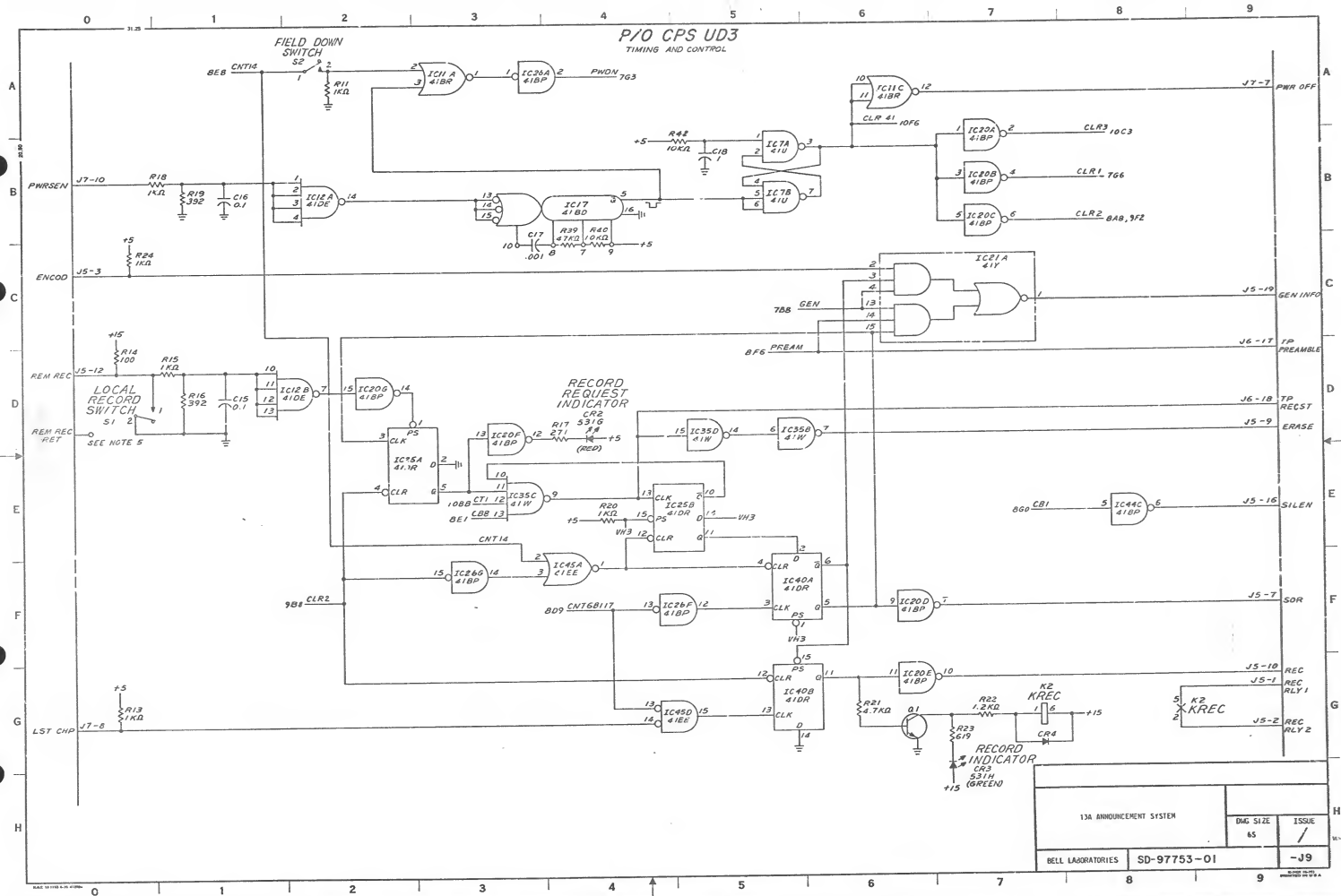
R161 330

P/O CPS UD3 TIMING AND CONTROL

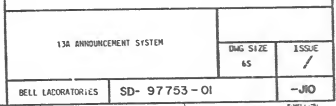


P/O CPS UD3





TIMING AND CONTROL

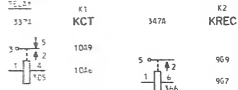


P/O CPS UD3 TIMING AND CONTROL

MANUFACTURING REFERENCE

CATEGORY	NO.

COMPONENT LIST



INTEGRATED CIRCUIT (CONT)

DESIG	LOC	CODE
IC17	904	418D
IC18	704	41C5
IC19	10C2, 10D8	418P
IC20	947, 907, 923, 902, 906, 906	418P

IC21	80P, 9C7	411
IC22	7C1	41CJ
IC23	702	WPPH-41-0512-58
		HEP815
IC24	1007	41CF
IC25	902, 904	410P
IC26	802, 8P5, 903, 8P3, 9P4, 1002	418P

IC27	8P7, 807	410R
IC28	704	41C5
IC29	8P1	41C5
IC31	804	41CJ
IC32	10C81	41H
	8C9, 10C1	
IC34	1007, 10D4	41AE
IC35	905, 903, 1002	41H
IC36	808	41CJ
IC37	802, 8C2, 8P6, 8P8	41U

IC38	812, 803, 808, 1001	41U
IC39	710, 708, 706, 708	418P
IC40	9P5, 9P5	41DR
IC41	807	41CJ
IC42	708, 801, 802, 801	41H
IC43	805	41CJ
IC44	702, 801, 808, 804, 9P8	418P

IC45	8P4, 8P5, 9P4, 904	41EE
IC46	809	41CJ
IC47	8P7, 807	41DR
IC48	807, 807	41DR

IC49	208, 8P5, 10E4, 10E5	41U
IC10	707, 707	41AE
IC11	705, 913, 940, 1002	418P
IC12	902, 901	41DE
IC13	7P4, 805	41AE
IC14	10C1, 10P3	41DR
IC15	710, 706, 7P5, 7P5	41U
IC16	701	41CJ

IC17	701	41CJ
------	-----	------

OSCILLATOR

DESIG	LOC	CODE
Y1	7P8	100A, 9.216 MHZ

RESISTOR

DESIG	LOC	CODE
R1	7P1	85-20616, L1A, 1K0
R2	702	431DR-101-102 BURNS

R10	7P1	271
R11	802	100
R12	803	100
R13	900	100
R14	900	100
R15	900	100
R16	900	100
R17	904	271

SEMI-CON (CONT)

DESIG	LOC	CODE
R18	900	
R19	801	
R20	904	
R21	906	
R22	907	
R23	907	
R24	900	
R25	1005	

R26	1006	
R27	1007	
R28	1007	
R29	1007	
R30	1007	

R31	984	
R32	9A5	
R33	1000	

R34	984	
R35	10C6	
R36	9A5	
R37	1000	

SWITCH

DESIG	LOC	CODE
S1	900	C & K 81254, 708P(3) (SMALL RED CAP)
S2	912	C & K 81254, 708P(3) (SMALL BLACK CAP)

TRANSISTOR

DESIG	LOC	CODE
Q1	904	6A5
Q2	1007	6A5
Q3	1006	6A5

NOTES:

- UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS.
CAPACITANCE VALUES ARE IN MICROFARADS.
VALUES PRECEDED BY THE S SYMBOL = (PUSH) OR
= (K) IS IN VOLTS.
- $\frac{1}{2}$ GROUND RETURN.
- PREZEMBLE LENGTH IS ADJUSTED WITH AN INSULATED
STRAP BETWEEN E11 AND E2.
- +5V AND GROUND IS DISTRIBUTED WITH 7 ROGERS BUS
STRIPS.
- THE INPUT SIGNAL REM REC RET IS CONNECTED TO
SYSTEM GROUND VIA THE PREZEMBLE WIRING.
- UNLESS OTHERWISE NOTED ALL IC'S HAVE PIN 8
CONNECTED TO GROUND AND PIN 16 CONNECTED TO +5V.
- FOR IC17 PIN 16 IS GND, PIN 9 IS +5V.

13A ANNOUNCEMENT SYSTEM

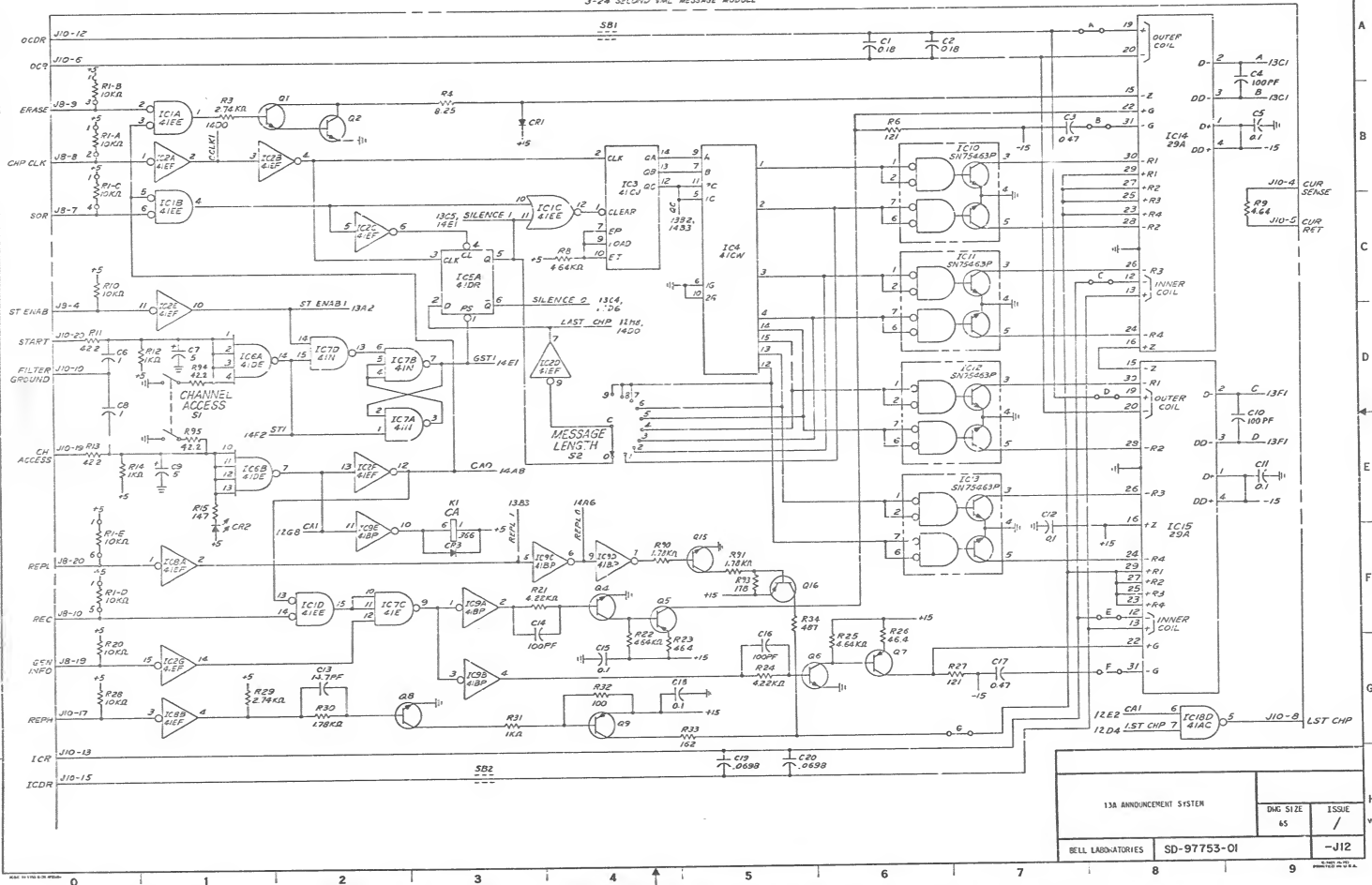
BELL LABORATORIES	SD-97753-01	ENG. SIZE	ISSUE
		65	/
		-JHIA	

TABLE A
(ROM PROGRAM FOR IC23 ON UD3)

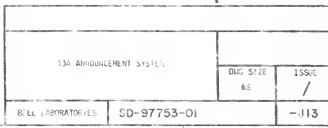
P/O CPS UD3
TIMING AND CONTROL

ADDRESS					ADR CUT	PROGRAM							
A ₅	A ₄	A ₃	A ₂	A ₁		B ₇	B ₆	B ₅	B ₄	B ₃	B ₂	B ₁	B ₀
0	0	0	0	0	0								
0	0	0	0	0	1								
0	0	0	0	1	1	1							
0	0	0	0	1	1	1							
0	0	0	1	0	0								
0	0	0	1	0	1								
0	0	0	1	1	0								
0	0	0	1	1	1								
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0	0	1	1	1	1								
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P/O CPS UD4 3-24 SECOND VML MESSAGE MODULE



3-24 SECOND VML MESSAGE MODULE



[illegible]

BELL LABORATORIES	SD-97753-OI	-J14
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ISSUE
1

P/O CPS UD4

3-24 SECOND VRL MESSAGE MODULE

COMPONENT LIST

RELAY

RELAY	K4	K3	K5
337A	CT	STP	MU
337B	14C9	14B9	14D9
337C	14E5	14D4	14D7

K1

347A

13E9

12E3

1366

1366

1366

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1366

CONNECTOR

DESIG

J8

J9

J10

LOC

7638-20

7638-20

7638-20

7638-20

7638-20

7638-20

7638-20

7638-20

7638-20

7638-20

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7638-20

7638-20

DIODE

DESIG

CR1

CR2

CR3

CR4

CR5

CR6

CR7

CR8

CR9

CR10

CR11

CR12

CR13

CR14

CR15

CR16

CR17

CR18

CR19

CR20

CR21

CR22

CR23

CR24

CR25

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CR177

CR178

CR179

CR180

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CR191

CR192

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CR194

CR195

CR196

CR197

CR198

CR199

CR200

CR201

CR202

CR203

CR204

CR205

CR206

CR207

CR208

CR209

CR210

CR211

CR212

CR213

CR214

CR215

CR216

CR217

RESISTOR

RESID	LOC
R1	1290.1250
R3	1291
R4	1293
R6	1296
R8	1294
R9	1299
R10	1290
R11	1290
R12	1290
R13	1290
R14	1290
R15	1291

R20	120
R21	125
R22	144
R23	125
R24	125
R25	126
R26	126
R27	128
R28	126
R29	121
R30	122
R31	123
R32	124

R33	1205
R34	1205
R35	1212
R36	1317
R37	1316
R38	1317
R39	1314
R40	1317

R41	1345
R42	1348
R43	1357
R44	1356
R45	1360
R46	1362
R47	1362
R48	1360

R49	130.2
R50	130.2
R51	130.2
R52	130.2
R53	130.2
R54	130.7
F56	13E.2
R57	13F.2

R58	13F2
R59	13F2
R60	13G2
R61	13G2
R62	13E4
R63	13E7
R64	13F8
R65	13F6

R65	1306
R66	1357
R67	1358
R68	1359
R69	1355
R70	1356
R71	1357
R72	1357
R73	1358

R73	1307
R74	1356
R75	1367
R77	1400
R76	1422
R79	1454
R80	1528
R81	1570

RESISTOR (CONT)

DESIG	LOG
R82	1423
R83	1425
R84	1366
R85	1352
R86	1331
R87	1322
R88	1302
R89	1407
R90	1258
R91	1255
R92	1416
R93	1255
R94	1221
R95	1231
R96	1341

<u>SWITCH</u>	<u>LOC</u>
51	12C1
52	12E4

TEST POINT	
DESIG	LOC
TP1	1302
TP2	1303
TP5	1362
TP6	13E3

<u>TRANSFORMER</u>	
<u>DESIG</u>	<u>LOC</u>
T1	1358

CODE
KS-20576, L12. 4-64EQ
KS-20576, L12. 7-47EQ
SEE NOTE 4
15-20676, L12
1040
SEE NOTE 4
SEE NOTE 4
267
1-75EQ
1-75EQ
4-64EQ
172
42-2
20-5EQ

CODE
85-19963.19
210725 EE CC

CODE
P-42956

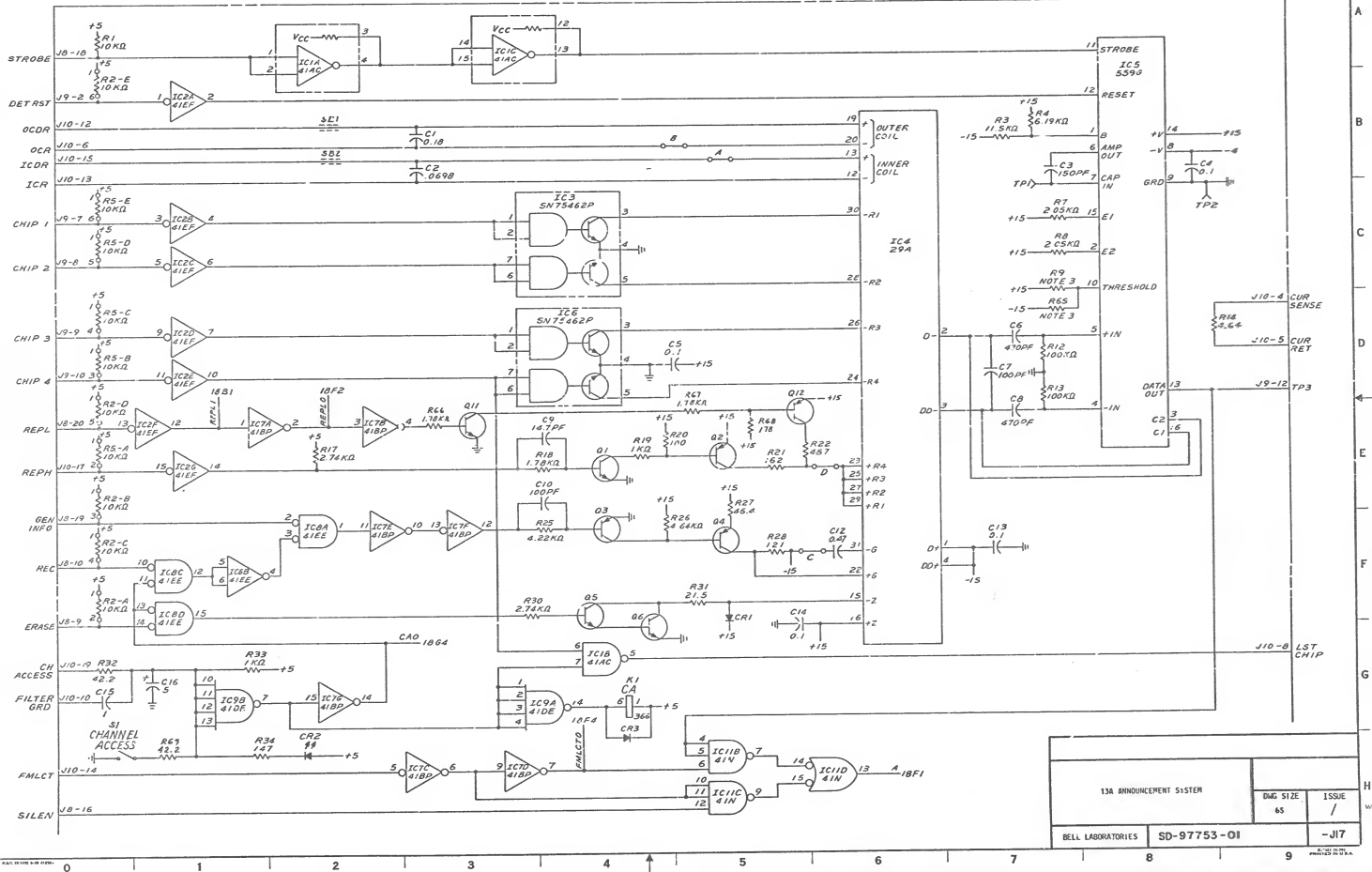
CODE
257800

TRANSISTOR

<u>DES16</u>	<u>LOC</u>	<u>CODE</u>
Q1	1281	2N222
Q2	1282	2N222
Q4	12F4	2N222
G5	12F4	2N290
G6	12G4	2N222
C7	12G6	2N29C
Q8	12u2	665
Q9	12G4	51F
C10	13u4	51F
C11	13G6	665
Q12	13G6	665
u13	14G5	665
C14	14E4	665
C15	12F5	665
C16	12F5	51F

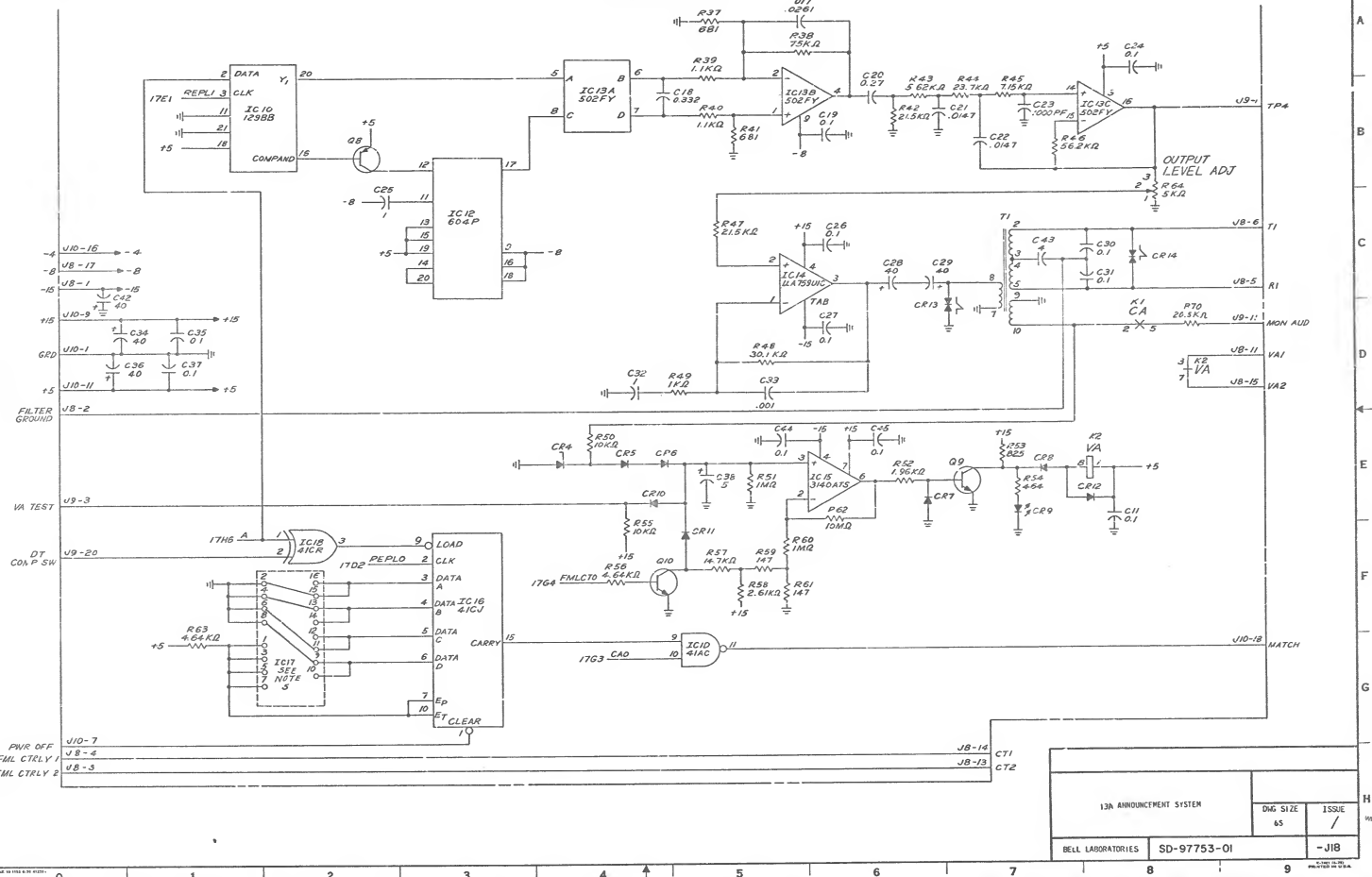
13A ANNOUNCEMENT SYSTEM		DMG SIZE 65	ISSUE /
BELL LABORATORIES	SD-97753-01	-J16	

P/O CPS UD5
FML MESSAGE MODULE

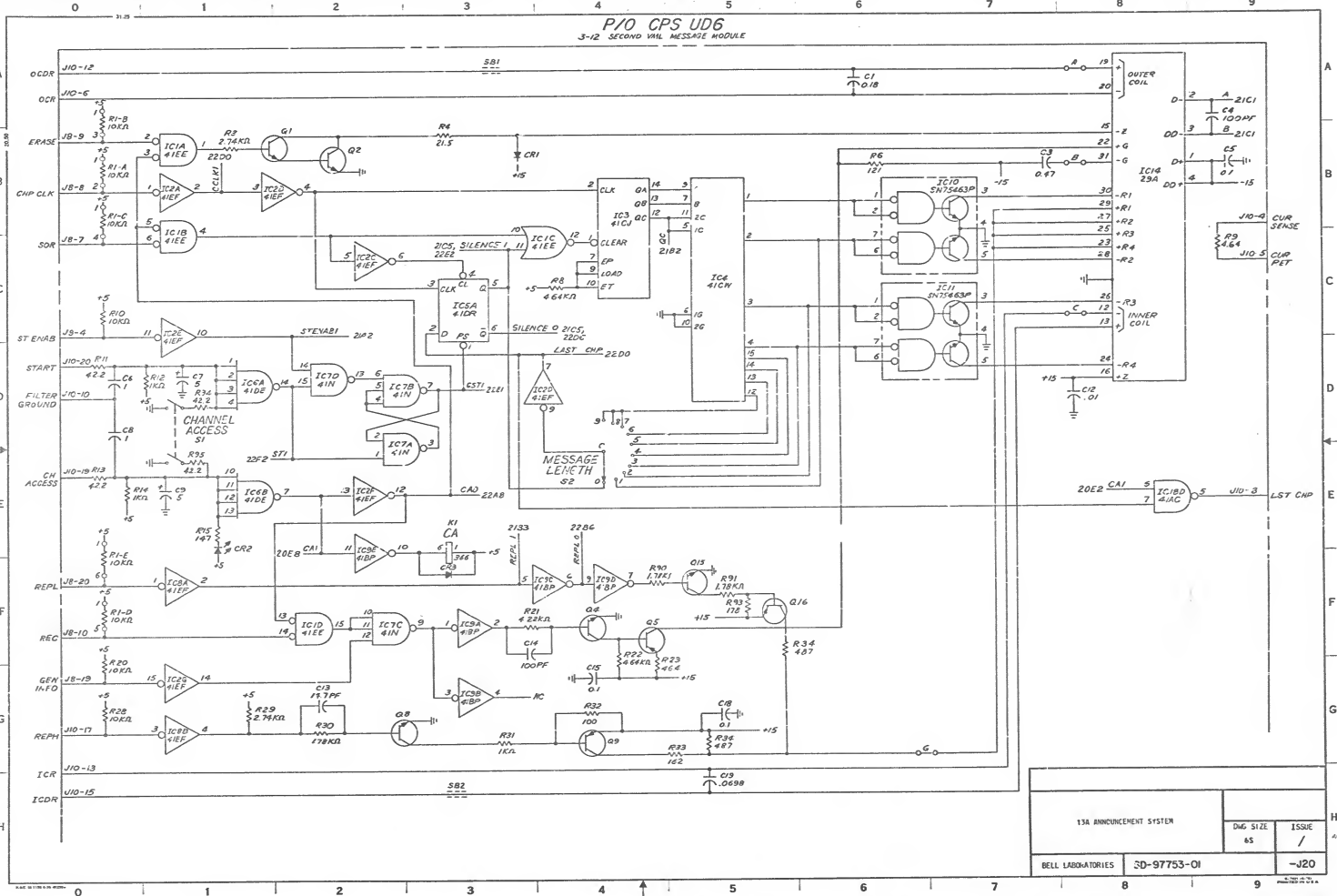


13A ANNOUNCEMENT SYSTEM		
BELL LABORATORIES		SD-97753-01
DWG. SIZE	AS	ISSUE
		-J17

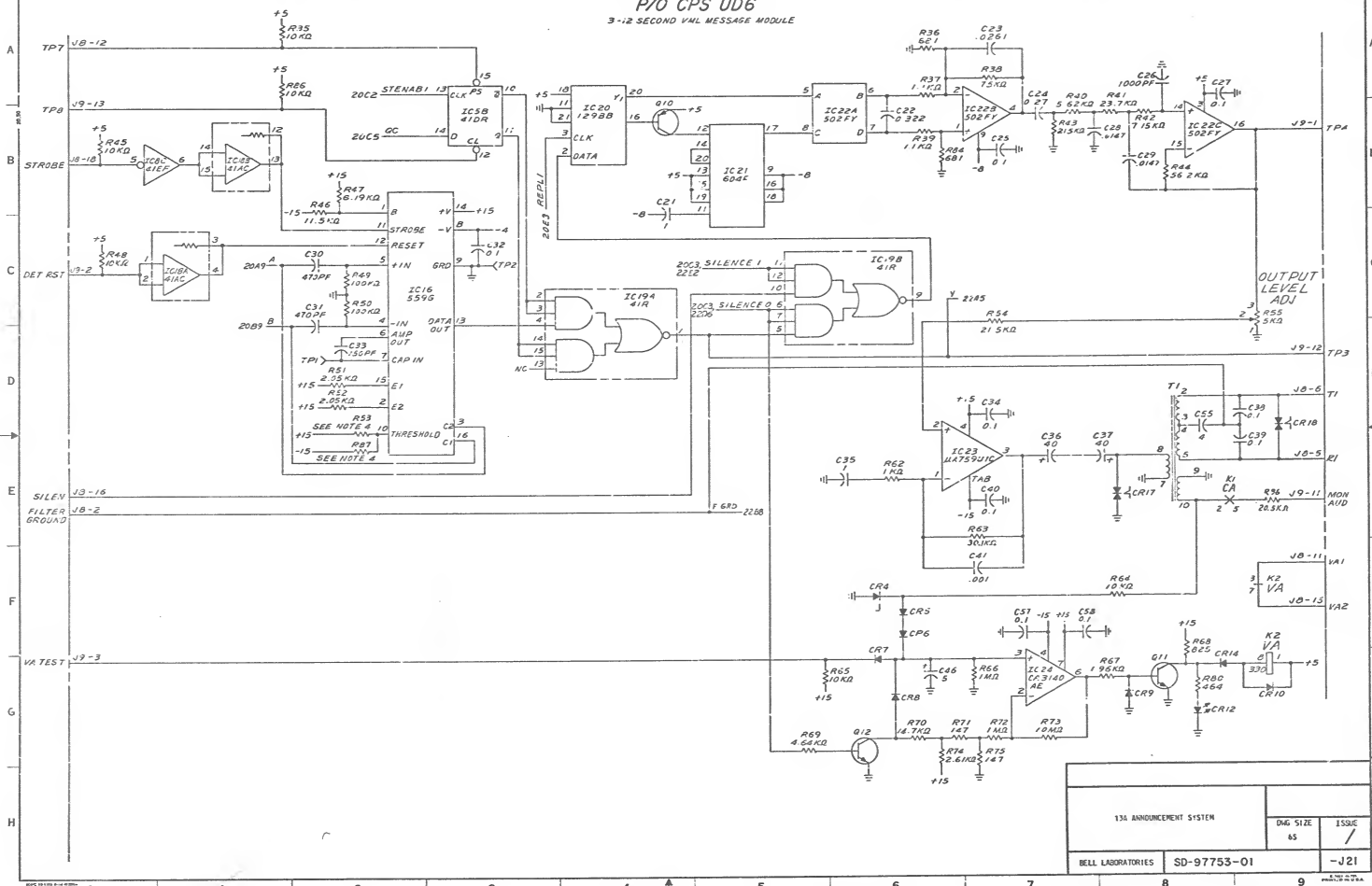
P/O CPS UD5 FML MESSAGE MODULE



13A ANNOUNCEMENT SYSTEM		DWG. SIZE	6S	ISSUE	/
BELL LABORATORIES		SD-97753-01		-J18	



P/O CPS UDG 3-12 SECOND VNL MESSAGE MODULE



156 ANNOUNCEMENT SYSTEM		DWG. SIZE	ISSUE
		65	1
BELL LABORATORIES		SD-97753-01	-J21

3-12 SECOND VML MESSAGE MODULE



P/O CPS UD6

3-12 SECOND VML MESSAGE MODULE

COMPONENT LIST

RELAY

RELAY	K4	K3	K5
3378	CT	STP	MU
3378	22C9	22B9	22D9
3378	22E5	22D4	22D7

CONNECTION

DESIG	LOC
210	

CODE
9635-20

INTEGRATED CIRCUIT (CONT)

DESIG	LOC	CODE
IC26	2107	41CJ
IC27	2105	SEE NOTE 3
IC28	2156	41CJ
IC29	2104, 22E3, 22F3	41H

MANUFACTURING REFERENCE

CATEGORY	NO.



LOC

LOC	CODE
2108	458C
2109	458C
2110	458C
2111	458C
2112	458C
2113	458C
2114	458C
2115	458C
2116	458C
2117	458C
2118	458C
2119	458C
2120	458C
2121	458C
2122	458C
2123	458C
2124	458C
2125	458C
2126	458C
2127	458C
2128	458C
2129	458C
2130	458C
2131	458C
2132	458C
2133	458C
2134	458C
2135	458C
2136	458C
2137	458C
2138	458C
2139	458C
2140	458C
2141	458C
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2158	458C
2159	458C
2160	458C
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2165	458C
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2231	458C
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2233	458C
2234	458C
2235	458C
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2257	458C
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2259	458C
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